

CURRENT LISTING OF CLAIMS

1. (Withdrawn) An isolated Nope polypeptide, or functional fragment thereof, comprising the amino acid sequence of a Nope polypeptide (SEQ ID NO:2), or a modification thereof.
2. (Withdrawn) The isolated Nope polypeptide of claim 1, wherein said functional fragment comprises the amino acid sequence of a Nope polypeptide extracellular domain (SEQ ID NO:4).
3. (Withdrawn) The isolated Nope polypeptide of claim 2, wherein said functional fragment comprises an amino acid sequence selected from the group consisting of immunoglobulin domain 1 (SEQ ID NO:8), immunoglobulin domain 2 (SEQ ID NO:10), immunoglobulin domain 3 (SEQ ID NO:12), immunoglobulin domain 4 (SEQ ID NO:14), fibronectin domain 1 (SEQ ID NO:16), fibronectin domain 2 (SEQ ID NO:18), fibronectin domain 3 (SEQ ID NO:20), fibronectin domain 4 (SEQ ID NO:22), and fibronectin domain 5 (SEQ ID NO:24).
4. (Withdrawn) The isolated Nope polypeptide of claim 1, wherein said functional fragment comprises the amino acid sequence of a Nope polypeptide intracellular domain (SEQ ID NO:6).
5. (Withdrawn) An antibody that specifically binds the Nope polypeptide of claim 1.
6. (Withdrawn) The antibody of claim 5, wherein said antibody is a polyclonal antibody.
7. (Withdrawn) The antibody of claim 5, wherein said antibody is a monoclonal antibody.
8. (Withdrawn) A method of detecting a Nope polypeptide, comprising contacting a sample with the antibody of claim 5, and detecting specific binding of said antibody.

9. (Previously presented) An isolated nucleic acid molecule encoding a Nope polypeptide having the amino acid sequence referenced as SEQ ID NO:2 and having a Nope polypeptide activity, or a modification of the encoding nucleic acid sequence.

10. (Previously presented) The isolated nucleic acid molecule of claim 9 comprising the nucleotide sequence referenced as SEQ ID NO:1, or a modification of said nucleotide sequence.

11. (Withdrawn) The nucleic acid molecule of claim 10, wherein said nucleotide sequence is selected from the group consisting of SEQ ID NOS:3, 5, 7, 9, 11, 13, 15, 17, 19, 21 and 23.

12. (Previously presented) A Nope oligonucleotide consisting of between 300 and 350 contiguous nucleotides of SEQ ID NO:1 or the anti-sense strand thereof.

13. (Previously presented) The isolated Nope oligonucleotide of claim 12, wherein said oligonucleotide consists of between 300 and 350 contiguous nucleotides of SEQ ID NO:5 or the anti-sense strand thereof.

14. (Original) A vector comprising an expression element operationally linked to the nucleotide sequence of claim 10.

15. (Withdrawn) A host cell comprising the vector of claim 13.

16. (Withdrawn) A method of detecting a Nope nucleic acid molecule in a sample, comprising contacting said sample with a Nope oligonucleotide of claim 12 under conditions allowing specific hybridization to a Nope nucleic acid molecule, and detecting said specific hybridization.

17. (Withdrawn) A method of detecting a Nope nucleic acid molecule in a sample, comprising contacting said sample with a Nope oligonucleotide of claim 13 under conditions allowing specific hybridization to a Nope nucleic acid molecule, and detecting said specific hybridization.

18. (Withdrawn) A method of detecting a Nope nucleic acid molecule in a sample, comprising contacting said sample with two or more Nope oligonucleotides of claim 12, amplifying a nucleic acid molecule, and detecting said amplification.
19. (Withdrawn) The method of claim 18, wherein said amplification is performed using polymerase chain reaction.
20. (Previously presented) A kit comprising one or more Nope oligonucleotides consisting of at least 300 contiguous nucleotides of SEQ ID NO:1 or the anti-sense strand thereof.
21. (Previously presented) The Nope oligonucleotide of claim 12, wherein said oligonucleotide is 300 to 325 contiguous nucleotides of SEQ ID NO:1 or the anti-sense strand thereof.
22. (Previously presented) The Nope oligonucleotide of claim 12, wherein said oligonucleotide is 325 to 350 contiguous nucleotides of SEQ ID NO:1 or the anti-sense strand thereof.
23. (Previously presented) The Nope oligonucleotide of claim 13, wherein said oligonucleotide is 300 to 325 contiguous nucleotides of SEQ ID NO:5 or the anti-sense strand thereof.
24. (Previously presented) The Nope oligonucleotide of claim 13, wherein said oligonucleotide is 325 to 350 contiguous nucleotides of SEQ ID NO:5 or the anti-sense strand thereof.
25. (Previously presented) An isolated nucleic acid molecule encoding a Nope polypeptide amino acid sequence referenced as SEQ ID NO:2.
26. (Previously presented) The isolated nucleic acid molecule of claim 25, said nucleic acid molecule comprising the nucleotide sequence referenced as SEQ ID NO:1.

27. (Previously presented) The nucleic acid molecule of claim 26, wherein said nucleotide sequence is selected from the group consisting of SEQ ID NOS:3, 5, 7, 9, 11, 13, 15, 17, 19, 21 and 23.

28. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:3.

29. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:5.

30. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:7.

31. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:9.

32. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:11.

33. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:13.

34. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:15.

35. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:17.

36. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:19.

37. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:21.

38. (Previously presented) The nucleic acid molecule of claim 27, wherein said nucleotide sequence is SEQ ID NO:23.

39. (Previously presented) A vector comprising an expression element operationally linked to the nucleotide sequence of claim 25.
40. (Previously presented) A host cell comprising the vector of claim 39.
41. (Previously presented) A vector comprising an expression element operationally linked to the nucleotide sequence of claim 26.
42. (Previously presented) A host cell comprising the vector of claim 41.